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☐ 1: Y10745. H.sapiens mRNA fo...[gi:2213442]

Links

LOCUS HSKIR42 1708 bp mRNA linear PRI 03-NOV-1998
 DEFINITION H.sapiens mRNA for inwardly rectifying potassium channel Kir4.2.
 ACCESSION Y10745
 VERSION Y10745.1 GI:2213442
 KEYWORDS inwardly rectifying K+ channel; KCNJ15; Kir4.2 gene.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1708)
 AUTHORS Gosset,P., Ghezala,G.A., Korn,B., Yaspo,M.L., Poutska,A.,
 Lehrach,H., Sinet,P.M. and Creau,N.
 TITLE A new inward rectifier potassium channel gene (KCNJ15) localized on
 chromosome 21 in the Down syndrome chromosome region 1 (DCR1)
 JOURNAL Genomics 44 (2), 237-241 (1997)
 MEDLINE 97446144
 REFERENCE 2 (bases 1 to 1708)
 AUTHORS Creau,N.
 TITLE Direct Submission
 JOURNAL Submitted (23-JAN-1997) N. Creau, CNRS URA1335, Faculte de Medecine
 Necker, 156 rue de Vaugirard, 75015 Paris, FRANCE
 REMARK revised by author 17-JUN-1997
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BASE COUNT 464 a 417 c 393 g 434 t

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361 cccagaagcg cggagagaca cgagccctct gcctgggagt ggcaatggta gtgtgtgctg
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☐ 1: U61536. Human potassium c...[gi:2209016]

Links

LOCUS HSU61536 1092 bp mRNA linear PRI 20-JUN-1997
DEFINITION Human potassium channel beta subunit mRNA, complete cds.
ACCESSION U61536
VERSION U61536.1 GI:2209016
KEYWORDS .
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1092)
AUTHORS Folander, K., Biazzo, D. and Swanson, R.
TITLE Primary Sequence of a cDNA encoding the beta subunit of a human,
calcium-activated, potassium channel
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1092)
AUTHORS Folander, K., Biazzo, D. and Swanson, R.
TITLE Direct Submission
JOURNAL Submitted (20-JUN-1996) Pharmacology, Merck Research Labs,
Sumneytown Pike, West Point, PA 19486, USA
FEATURES Location/Qualifiers
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BASE COUNT 230 a 354 c 280 g 228 t
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☐ 1: U22413. Human inward rect...[gi:727362][Links](#)

LOCUS HSU22413 1284 bp mRNA linear PRI 24-MAR-1995
DEFINITION Human inward rectifier potassium channel mRNA, complete cds.
ACCESSION U22413
VERSION U22413.1 GI:727362
KEYWORDS .
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 427)
AUTHORS Ashen,M.D., O'Rourke,B., Kluge,K.A., Johns,D.C. and Tomaselli,G.F.
TITLE Inward rectifier K⁺ channel from human heart and brain: cloning and
stable expression in a human cell line
JOURNAL Am. J. Physiol. 268 (37), 506-511 (1995)
REFERENCE 2 (bases 1 to 1284)
AUTHORS Ashen,M.D.
TITLE Direct Submission
JOURNAL Submitted (09-MAR-1995) Marie D. Ashen, Department of Medicine, The
Johns Hopkins University, 720 Rutland Avenue, Baltimore, MD 21205,
USA

FEATURES Location/Qualifiers
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BASE COUNT 348 a 293 c 327 g 316 t
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□ 1: M60451. Human voltage-gat...[gi:308764]

Links

LOCUS	HUMVENHK2	2118 bp	mRNA	linear	PRI 14-JAN-1995
DEFINITION	Human voltage-gated potassium channel (HK2) mRNA, complete cds.				
ACCESSION	M60451				
VERSION	M60451.1 GI:308764				
KEYWORDS	voltage-gated potassium channel.				
SOURCE	Homo sapiens adult left ventricular cardiac muscle cDNA to mRNA.				
ORGANISM	<u>Homo sapiens</u> Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 2118)				
AUTHORS	Tamkun,M.M., Knoth,K.M., Walbridge,J.A., Kroemer,H., Roden,D.M. and Glover,D.M.				
TITLE	Molecular cloning and characterization of two voltage-gated K+ channel cDNAs from human ventricle				
JOURNAL	FASEB J. 5 (3), 331-337 (1991)				
MEDLINE	<u>91160866</u>				
PUBMED	2001794				

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BASE COUNT	374 a	698 c	682 g	364 t
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2101 ttgactcac tcctctct

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Links

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LOCUS          HUMVENHK1                2445 bp      linear      PRI 14-JAN-1995
DEFINITION     Human voltage-gated potassium channel (HK1) mRNA, complete cds.
ACCESSION      M60450
VERSION        M60450.1  GI:308762
KEYWORDS       voltage-gated potassium channel.
SOURCE         Homo sapiens ventricular cardiac muscle cDNA to mRNA.
  ORGANISM     Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1  (bases 1 to 2445)
  AUTHORS      Tamkun,M.M., Knoth,K.M., Walbridge,J.A., Kroemer,H., Roden,D.M. and
               Glover,D.M.
  TITLE        Molecular cloning and characterization of two voltage-gated K+
               channel cDNAs from human ventricle
  JOURNAL      FASEB J. 5 (3), 331-337 (1991)
  MEDLINE      91160866
  PUBMED       2001794

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BASE COUNT	612 a	563 c	648 g	622 t
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1: M55514. Human potassium c...[gi:189659]

Links

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LOCUS       HUMPCC                      3388 bp    mRNA    linear    PRI 07-JAN-1995
DEFINITION  Human potassium channel (HPCN2) mRNA, complete cds.
ACCESSION   M55514
VERSION     M55514.1  GI:189659
KEYWORDS    potassium channel protein.
SOURCE      Human fetal skeletal muscle, cDNA to mRNA.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 3388)
  AUTHORS   Philipson,L.H., Schaefer,K., LaMendola,J., Bell,G.I. and
            Steiner,D.F.
  TITLE     Sequence of a human fetal skeletal muscle potassium channel cDNA
            related to RCK4
  JOURNAL   Nucleic Acids Res. 18 (23), 7160 (1990)
  MEDLINE   91088321
  PUBMED    2263489
REFERENCE   2  (bases 1 to 3388)
  AUTHORS   Philipson,L.H., Hice,R.E., Schaefer,K., LaMendola,J., Bell,G.I.,
            Nelson,D.J. and Steiner,D.F.
  TITLE     Sequence and functional expression in Xenopus oocytes of a human
            insulinoma and islet potassium channel
  JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 88 (1), 53-57 (1991)
  MEDLINE   91095456
  PUBMED    1986382

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BASE COUNT 835 a 813 c 846 g 894 t

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☐ 1: L28168. Homo sapiens card...[gi:452493]

Links

LOCUS HUMCDRPCA 408 bp mRNA linear PRI 31-DEC-1994
 DEFINITION Homo sapiens cardiac delayed rectifier potassium channel protein
 mRNA, complete cds.

ACCESSION L28168

VERSION L28168.1 GI:452493

KEYWORDS cardiac delayed rectifier potassium channel protein.

SOURCE Homo sapiens adult cardiac muscle cDNA to mRNA.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 408)

AUTHORS Folander,K., Williams,J.B., Strauss,H.C., Lazarides,E. and
 Swanson,R.

TITLE The Human IsK Potassium Channel Gene: expression in fetal and adult
 heart, assignment to human chromosome 21q22, and an RFLP that
 distinguishes two alleles

JOURNAL Unpublished (1994)

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BASE COUNT 94 a 128 c 108 g 78 t

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☐ 1: U02632. Human calcium-act...[gi:487427]

Links

LOCUS HSU02632 3090 bp mRNA linear PRI 08-OCT-1994
DEFINITION Human calcium-activated potassium channel mRNA, partial cds.
ACCESSION U02632
VERSION U02632.1 GI:487427
KEYWORDS .
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3090)
AUTHORS Pallanck, L. and Ganetzky, B.
TITLE Cloning and characterization of human and mouse homologs of the
Drosophila calcium-activated potassium channel gene, slowpoke
JOURNAL Hum. Mol. Genet. 3 (8), 1239-1243 (1994)
MEDLINE 95078823
PUBMED 7987297
REFERENCE 2 (bases 1 to 3090)
AUTHORS Pallanck, L.J.
TITLE Direct Submission
JOURNAL Submitted (21-OCT-1993) Leo J. Pallanck, Genetics, University of
Wisconsin-Madison, 445 Henry Mall, Madison, WI 53706, USA
COMMENT On May 17, 1994 this sequence version replaced gi:409697.
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Revised: July 5, 2002.

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Oct 21 2002 11:56:56

NCBI Nucleotide

PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Boo

Search for

Limits Preview/Index History Clipboard Details

☐ 1: AJ001366. Homo sapiens pota...[gi:3676224]

Links

LOCUS HSJ001366 3102 bp mRNA linear PRI 29-SEP-1998

DEFINITION Homo sapiens potassium channel h-eag.

ACCESSION AJ001366

VERSION AJ001366.1 GI:3676224

KEYWORDS potassium channel protein.

SOURCE human.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 3102)

AUTHORS Occhiodoro,T., Bernheim,L., Liu,J.H., Bijlenga,P., Sinnreich,M.,
Bader,C.R. and Fischer-Lougheed,J.

TITLE Cloning of a human ether-a-go-go potassium channel expressed in
myoblasts at the onset of fusion

JOURNAL FEBS Lett. 434 (1-2), 177-182 (1998)

MEDLINE 98408853

REFERENCE 2 (bases 1 to 3102)

AUTHORS Occhiodoro,T.

TITLE Direct Submission

JOURNAL Submitted (02-OCT-1997) Occhiodoro T., Department of Physiology,
Centre Medical Universitaire, 1 Rue Michel Servet, Geneva 1211,
SWITZERLAND

FEATURES Location/Qualifiers

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☐ 1: AH007779. Homo sapiens smal...[gi:5006458]

Links

LOCUS HSKCNN01 434 bp DNA linear PRI 08-JUN-1999
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 VERSION AF131938.1 GI:5006447
 KEYWORDS .
 SEGMENT 1 of 11
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 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 434)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 434)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA

FEATURES Location/Qualifiers
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 ACCESSION AF131939

VERSION AF131939.1 GI:5006448
KEYWORDS .
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SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1058)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Gene structure and chromosomal mapping of the human
small-conductance calcium-activated potassium channel gene hSK1
(KCNN1)
JOURNAL Cytogenet. Cell Genet. (1999) In press
REFERENCE 2 (bases 1 to 1058)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
USA

FEATURES Location/Qualifiers
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LOCUS HSKCNN03 1481 bp DNA linear PRI 08-JUN-1999
DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
1 (KCNN1) gene, exon 3.
ACCESSION AF131940
VERSION AF131940.1 GI:5006449
KEYWORDS .
SEGMENT 3 of 11
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1481)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 1481)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA

FEATURES Location/Qualifiers
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LOCUS HSKCNN04 469 bp DNA linear PRI 08-JUN-1999
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 1 (KCNN1) gene, exon 4.
 ACCESSION AF131941
 VERSION AF131941.1 GI:5006450
 KEYWORDS .
 SEGMENT 4 of 11
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 469)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human small-conductance calcium-activated potassium channel gene hSK1 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press

REFERENCE 2 (bases 1 to 469)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098, USA

FEATURES Location/Qualifiers
 source 1..469
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="19"
 /map="between WI-9679 and WI-3165"
 exon 106..201
 /gene="KCNN1"
 /number=4

BASE COUNT 116 a 140 c 101 g 108 t 4 others
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121 ttgcgactca aatgcctcat cagcctctcc acggccatcc tgctgggtct cgttgtcctc
181 taccatgccc gggagatcca ggctcagtgt gaatactgca ggaagcagct cctctcctna
241 aaccccgagat cccccacac cagccacct tagaccccat cccctcaaaa cataaaagga
301 tgtataattg gcttctgata gaaaaaagat ctccataaaag acacacagtt tccatcattc
361 tagatttcct tgaaacacac atctgtgttn taattttcat tgattattta caaanaagaa
421 caggtagnga gaaagtgagg ggctgagctg ggactctggg acacacggg

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 LOCUS HSKCNN05 708 bp DNA linear PRI 08-JUN-1999

DEFINITION Homo sapiens small-conductance calcium-activated potassium channel 1 (KCNN1) gene, exon 5.

ACCESSION AF131942

VERSION AF131942.1 GI:5006451

KEYWORDS .

SEGMENT 5 of 11

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 708)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human small-conductance calcium-activated potassium channel gene hSK1 (KCNN1)

JOURNAL Cytogenet. Cell Genet. (1999) In press

REFERENCE 2 (bases 1 to 708)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Direct Submission

JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098, USA

FEATURES Location/Qualifiers
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  121 acacccatgg ctggttcctt cccgccctcc acagctgttc atggtggaca acggggctga
  181 tgactggcgc atcgccatga cctgcgagcg cgtgttcctc atctcgctag agctggcagt
  241 gtgcgccatt cacccggtgc ccggccacta ccgcttcacg tggacggcgc ggctggcctt
  301 cacgtacgcg ccctcggtgg ccgaggccga cgtggacgtg ctgctgtcca tccccatgtt
  361 cctgcgcctc tacctgctgg gccgggtgat gctactgcac agcaaaatct tcacggacgc
  421 ctcgagccgc agcatcgggg ccctcaacaa gatcaccttc aacacgcgct tcgtcatgaa
  481 gacactcatg accatctgcc ccggcaccgt gctgctggtc ttcagcatct cctcctggat
  541 catcgacgcc tggaccgtgc gcgtctgcga gaggtgcgac cgccgtccct ggagccccc
  601 cagccccag ccccgctctc cctggacctc catgcccatt catgatttca ccgaccctgg
  661 gccctccccg accctgggaa ggagaggaca gcgattctcg tacgaacg
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LOCUS      HSKCNN06                      542 bp      DNA      linear      PRI 08-JUN-1999
DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
            1 (KCNN1) gene, exon 6.
ACCESSION  AF131943
VERSION    AF131943.1  GI:5006452
KEYWORDS   .
SEGMENT    6 of 11
SOURCE     Homo sapiens.
   ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 542)
   AUTHORS  Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
   TITLE    Gene structure and chromosomal mapping of the human
            small-conductance calcium-activated potassium channel gene hSK1
            (KCNN1)
   JOURNAL  Cytogenet. Cell Genet. (1999) In press
REFERENCE  2 (bases 1 to 542)
   AUTHORS  Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
   TITLE    Direct Submission
   JOURNAL  Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
            University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
            USA
FEATURES   Location/Qualifiers
   source   1..542
            /organism="Homo sapiens"
            /db_xref="taxon:9606"
            /chromosome="19"
            /map="between WI-9679 and WI-3165"
   exon   305..446
            /gene="KCNN1"
            /number=6
BASE COUNT      104 a      153 c      176 g      108 t      1 others
ORIGIN
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   61 tacaacctca cctgggcccc tctctgcccc atccagggaa gcagcttggg ggggcaggca
  121 aagggaatgt ggaagggtg tagcggggga gaggggtgcgc ctgtcctgta cccacaggac
  181 atagcccca cgcagcgagg tggactcagg gccctccagc cctggcgctg ccccagggg
  241 tgtgatggag gcaaagggga tggatatagac tgagccctcc ctcttccac tctggctccc
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361 ccatcacctt cctctccatt ggctacggcg acatgggtgcc ccacacctac tgcgggaagg
421 gtgtgtgcct gctcactggc atcatggtaa gggtgagggt ccatgtgtat gatcctggga
481 ggtccagcca ggaaggagag gacagcgatt ctcgtacgaa cggttacnat tcgagcaagg
541 cc
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LOCUS HSKCNN07 388 bp DNA linear PRI 08-JUN-1999

DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
1 (KCNN1) gene, exon 7.

ACCESSION AF131944

VERSION AF131944.1 GI:5006453

KEYWORDS .

SEGMENT 7 of 11

SOURCE Homo sapiens.

ORGANISM Homo sapiensEukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 388)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Gene structure and chromosomal mapping of the human
small-conductance calcium-activated potassium channel gene hSK1
(KCNN1)

JOURNAL Cytogenet. Cell Genet. (1999) In press

REFERENCE 2 (bases 1 to 388)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Direct Submission

JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
USA

FEATURES Location/Qualifiers

source

1..388

/organism="Homo sapiens"

/db_xref="taxon:9606"

/chromosome="19"

/map="between WI-9679 and WI-3165"

exon

223..333

/gene="KCNN1"

/number=7

BASE COUNT 86 a 101 c 115 g 82 t 4 others

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121 ctggctcaga gaatggggag ctgcaatctg ggcaggcttc ctggaggagg gagtgacctc
181 aagacaggac gctgatgtgc ccccttctg ccctgcacac agggagctgg ctgtaccgag
241 ctcgtggtgg ctgtggtggc tcggaagctg gagctcacca aggctgagaa gcacgtgcac
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361 ctcgtacgta cggttacgtt tcgacaaa
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LOCUS HSKCNN08 612 bp DNA linear PRI 08-JUN-1999

DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
1 (KCNN1) gene, exon 8.

ACCESSION AF131945

VERSION AF131945.1 GI:5006454

KEYWORDS .

SEGMENT 8 of 11

SOURCE Homo sapiens.

ORGANISM Homo sapiensEukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 612)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 612)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA

FEATURES Location/Qualifiers
 source 1..612
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="19"
 /map="between WI-9679 and WI-3165"
 exon 145..272
 /gene="KCNN1"
 /number=8

BASE COUNT 135 a 153 c 158 g 160 t 6 others
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181 tggctcatct acaaacatac caggctgggtg aagaagccag accaagcccc gggtcggaaa
241 caccagcgta agttcctcca agccatccat cagtaagtcc agcacctttc cagctcacgt
301 ttctgtgtcc acatggcgcg gaggcagccc tcgcagctct gtgtggcctc ttcacggctc
361 cctgccaggg acgggtgggtc agttgggttg ggccctgcac ttctgagctg ggtggatggg
421 aggatcttca gagggaggca gatgatgggg tctgctaaat catggacacn actcagtaag
481 tggcaggatg tatattttat tctctggaat aaccaggata attcttacc tttanacttt
541 gaancgattt cctctttttg ctttgtctgc caggaggctc atanttaaat ccatggtctg
601 atccatggga tc

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//

LOCUS HSKCNN09 465 bp DNA linear PRI 08-JUN-1999

DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
 1 (KCNN1) gene, exon 9.

ACCESSION AF131946

VERSION AF131946.1 GI:5006455

KEYWORDS .

SEGMENT 9 of 11

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 465)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)

JOURNAL Cytogenet. Cell Genet. (1999) In press

REFERENCE 2 (bases 1 to 465)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Direct Submission

JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA

FEATURES Location/Qualifiers
 source 1..465
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  181 acagacaggg ggtacacccg gggcatgcc aacccagcct cagaggcggg cagggttcac
  241 atctgcccc a tggatccgtg caggcttcac cttggtcttg gatccaactt cctggggcag
  301 tcctgagttg ggccggagac aggaccagcc aatgggtggt gtgggcggtg gccaggctga
  361 cttctggccc tggcgacccg gctgtgtact gggagggaat agactacagg gaatcggcct
  421 cccaactccc acctcatcct ctgatgcatg tcccataggt tcatt
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LOCUS      HSKCNN10                      795 bp      DNA      linear      PRI 08-JUN-1999
DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
            1 (KCNN1) gene, exon 10.
ACCESSION  AF131947
VERSION    AF131947.1  GI:5006456
KEYWORDS   .
SEGMENT    10 of 11
SOURCE     Homo sapiens.
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 795)
  AUTHORS  Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
  TITLE    Gene structure and chromosomal mapping of the human
            small-conductance calcium-activated potassium channel gene hSK1
            (KCNN1)
  JOURNAL  Cytogenet. Cell Genet. (1999) In press
REFERENCE  2 (bases 1 to 795)
  AUTHORS  Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
  TITLE    Direct Submission
  JOURNAL  Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
            University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
            USA
FEATURES   Location/Qualifiers
    source      1..795
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                /chromosome="19"
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    exon        560..629
                /gene="KCNN1"
                /number=10
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  121 ccagggtcct gaagtaagtg ttctcccagg ggcttggtgg ggctggaaat cgggggtgca
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  361 caggctgact tctggccctg gcgcaccggc tgtgtactgg gagggaatag actacaggga
  421 atcggcctcc caactccac ctcactctct gatgcatgtc ccataggtga ccccggtgg
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661 gttggggcag ggtggggccaa acagggcagg tggggccccc gagcanatgg gatggggctc
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781 cgcttgagct cagga
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//

LOCUS HSKCNN1 1109 bp DNA linear PRI 08-JUN-1999
DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
1 (KCNN1) gene, exon 11 and complete cds.
ACCESSION AF131948
VERSION AF131948.1 GI:5006457
KEYWORDS .
SEGMENT 11 of 11
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1109)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Gene structure and chromosomal mapping of the human
small-conductance calcium-activated potassium channel gene hSK1
(KCNN1)
JOURNAL Cytogenet. Cell Genet. (1999) In press
REFERENCE 2 (bases 1 to 1109)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
USA

FEATURES

	Location/Qualifiers
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mRNA	join(AF131938.1:<1..109,AF131939.1:568..688, AF131940.1:431..914,AF131941.1:106..201, AF131942.1:155..573,AF131943.1:305..446, AF131944.1:223..333,AF131945.1:145..272, AF131946.1:116..124,AF131947.1:560..629,273..>1109) /gene="KCNN1" /product="small-conductance calcium-activated potassium channel 1"
CDS	join(AF131940.1:459..914,AF131941.1:106..201, AF131942.1:155..573,AF131943.1:305..446, AF131944.1:223..333,AF131945.1:145..272, AF131946.1:116..124,AF131947.1:560..629,273..527) /gene="KCNN1" /note="hSK1" /codon_start=1 /product="small-conductance calcium-activated potassium channel 1" /protein_id="A437507.1" /db_xref="GI:5006459"

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SIGALNKITFNTRFVMKTLMTICPGTVLLVFSISSWIIAAWTVRVCCERYHDKQEVTSN
FLGAMWLISITFLSIGYDMVPHTYCGKGVCLLTGIMGAGCTALVVAVVARKLELTKA
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exon

273..>1109

/gene="KCNN1"

/number=11

3'UTR

528..>1109

/gene="KCNN1"

BASE COUNT 199 a 394 c 316 g 200 t

ORIGIN

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121  atcctccag  ccacccctca  cacgggccc  attagtggct  ggcaccacc  tggagcgtgt
181  gggtgtccc  tctctgtcat  tgggtgcgtg  gtatcgctct  ttcctctctc  actcagcggc
241  gcctctctcc  tgccctctc  tgtctccgc  agaccagac  cgtcatgtac  gacctgtat
301  cggagctgca  cgctcagcac  gaggagctgg  agggccgcct  ggccaccctg  gaaagccgct
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481  gctccccctg  ccggtggacg  cccgtggccc  cctcggactg  cgggtgacgg  ccctgccgc
541  caccagacc  ctaaatcttg  gccatcggt  ggccgccacc  tccgggaagc  cttgtacagt
601  ggcgcctct  ggagttcaag  aagccgacgc  tgagtcaggc  tgagtggact  gaggcctgcc
661  ccgccagact  gccaggcag  agggcagggc  tggaccatgg  gtgagggcag  gggagcccgg
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901  gatgaatgtg  ggaatcagaa  aaacctgttc  ccatcaccgg  cctagcctag  aatcctagcc
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1081  tcgctcccc  tcaaccaacc  gcgttgatg
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Revised: July 5, 2002.

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Oct 21 2002 11:56:56



CGCTCAGGATATGACTTCGGCTAGAGGATGGGATCCCGGCGGATTATTATATAGCTCGATCGATCT
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CCCCATCT
CACAGACTTACGCTTCT

PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

Search for

Limits

Preview/Index

History

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default

☐ 1: U96110. Homo sapiens cycl...[gi:2138344]

Links

LOCUS HSU96110 1580 bp DNA linear PRI 31-MAY-1997
DEFINITION Homo sapiens cyclic GMP gated potassium channel (Kcn1) gene,
complete cds.

ACCESSION U96110

VERSION U96110.1 GI:2138344

KEYWORDS .

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1580)

AUTHORS Orias,M., Bray-Ward,P., Curran,M.E., Keating,M.T. and Desir,G.V.

TITLE Genomic localization of the human gene for KCNA10, a cGMP-activated
K channel

JOURNAL Genomics 42 (1), 33-37 (1997)

MEDLINE 97321042PUBMED 9177773

REFERENCE 2 (bases 1 to 1580)

AUTHORS Desir,G.V., Orias,M., Keating,M.T. and Curran,M.E.

TITLE Direct Submission

JOURNAL Submitted (02-APR-1997) Internal Medicine, Yale University, 333
Cedar St, New Haven, CT 06510, USA

FEATURES Location/Qualifiers

source

1..1580

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/map="1p13.1-p22.1"

gene

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/gene="Kcn1"

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BASE COUNT 372 a 430 c 398 g 380 t

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 CACAGACCTACGCT

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☐ 1: U73192. Human inward rect...[gi:1765986]

Links

LOCUS HSU73192 2896 bp DNA linear PRI 07-JAN-1997
 DEFINITION Human inward rectifier potassium channel Kir1.2 (Kir1.2) gene,
 complete cds.
 ACCESSION U73192
 VERSION U73192.1 GI:1765986
 KEYWORDS .
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2896)
 AUTHORS Shuck,M.E., Piser,T.M., Bock,J.H., Slightom,J.L., Lee,K.S. and
 Bienkowski,M.J.
 TITLE Cloning and characterization of two K⁺ inward rectifier (Kir) 1.1
 potassium channel homologs from human kidney (Kir1.2 and Kir1.3)
 JOURNAL J. Biol. Chem. 272 (1), 586-593 (1997)
 MEDLINE 97150765
 PUBMED 8995301
 REFERENCE 2 (bases 1 to 2896)
 AUTHORS Shuck,M.E., Piser,T.M., Bock,J.H., Slightom,J.L., Lee,K.S. and
 Bienkowski,M.J.
 TITLE Direct Submission
 JOURNAL Submitted (27-SEP-1996) Molecular Biology, Pharmacia & Upjohn, 301
 Henriette Street, Kalamazoo, MI 49007, USA
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 source Location/Qualifiers
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 /chromosome="1"
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 CDS 439..1578
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 ITGTFLAKIARPKKRAETIRFSQHAVVASHNGKPCLMIRVANMRKSLIGCQVTGKLL
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 BASE COUNT 675 a 815 c 658 g 748 t
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2881 atggcttccc tcagcc

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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Boo

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☐ 1: M26685. Human Isk protein...[gi:186569][Links](#)

LOCUS HUMISK. 436 bp DNA linear PRI 30-MAR-1994
DEFINITION Human Isk protein (exhibiting a slowly activating channel activity)
gene, complete cds, clone phKI2.
ACCESSION M26685
VERSION M26685.1 GI:186569
KEYWORDS Isk protein; transmembrane protein.
SOURCE Human adult DNA, clone phKI2.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 436)

AUTHORS Murai,T., Kakizuka,A., Takumi,T., Ohkubo,H. and Nakanishi,S.

TITLE Molecular cloning and sequence analysis of human genomic DNA
encoding a novel membrane protein which exhibits a slowly
activating potassium channel activity

JOURNAL Biochem. Biophys. Res. Commun. 161 (1), 176-181 (1989)

MEDLINE 89273632

PUBMED 2730656

COMMENT Draft entry and printed copy of sequence for [1] kindly submitted
by S.Nakanishi, 07-SEP-1989.

FEATURES Location/Qualifiers

source 1..436
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/dev_stage="adult"

CDS 29..418
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/translation="MILSNTTAVTPFLTKLWQETVQQGGNMSGLARRSPRSSDGKLEA
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BASE COUNT 103 a 139 c 112 g 82 t

ORIGIN 5 bp upstream of PstI site.

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421 cccaccactg gctaaa
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Protein

Genome

Structure

PopSet

Taxonomy

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Details

 ☐ 1: M55515. Human potassium c...[gi:189672]

Links

LOCUS HUMPCD 1820 bp DNA linear PRI 27-APR-1993
DEFINITION Human potassium channel protein (HPCN3) gene, complete cds.
ACCESSION M55515
VERSION M55515.1 GI:189672
KEYWORDS potassium channel protein.
SOURCE Human DNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (sites)
AUTHORS Philipson,L.H., LaMendola,J., Bell,G.I. and Steiner,D.F.
TITLE Genomic sequence of a human potassium channel related to RCK3
JOURNAL Unpublished (1990)
REFERENCE 2 (bases 1 to 1820)
AUTHORS Philipson,L.H., Hice,R.E., Schaefer,K., LaMendola,J., Bell,G.I.,
Nelson,D.J. and Steiner,D.F.
TITLE Sequence and functional expression in Xenopus oocytes of a human
insulinoma and islet potassium channel
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 88 (1), 53-57 (1991)
MEDLINE 91095456
PUBMED 1986382

FEATURES Location/Qualifiers
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/gene="HPCN3"
CDS 126..1697
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BASE COUNT 347 a 581 c 520 g 372 t
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ECCCACT#
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 ☐ 1: L33815. Homo sapiens dela...[gi:603450]

Links

LOCUS HUMISKA 402 bp DNA linear PRI 21-MAR-1995
DEFINITION Homo sapiens delayed rectifier potassium channel (Isk) gene,
complete cds.
ACCESSION L33815
VERSION L33815.1 GI:603450
KEYWORDS delayed rectifier potassium channel.
SOURCE Homo sapiens adult leukocyte DNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 402)
AUTHORS Lai,L.P., Deng,C.L., Moss,A.J., Kass,R.S. and Liang,C.S.
TITLE Polymorphism of the gene encoding a human minimal potassium ion
channel (minK)
JOURNAL Gene 151 (1-2), 339-340 (1994)
MEDLINE 95129890
PUBMED 7828904

FEATURES Location/Qualifiers
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/dev_stage="adult"
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CDS 12..401
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BASE COUNT 93 a 126 c 106 g 77 t

ORIGIN

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1261 acatcggaat catga

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CGCTCAGGATATGAETTCGTCGGCTAGAGGATCGGATCCCGGCGATATTATATAGCTCGATCGATCT
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CACAGACTCTACGCTCTCACTA

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Details

 ☐ 1: U96110. Homo sapiens cycl...[gi:2138344]

Links

LOCUS HSU96110 1580 bp DNA linear PRI 31-MAY-1997
DEFINITION Homo sapiens cyclic GMP gated potassium channel (Kcn1) gene,
complete cds.

ACCESSION U96110

VERSION U96110.1 GI:2138344

KEYWORDS .

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1580)

AUTHORS Orias,M., Bray-Ward,P., Curran,M.E., Keating,M.T. and Desir,G.V.

TITLE Genomic localization of the human gene for KCNA10, a cGMP-activated
K channel

JOURNAL Genomics 42 (1), 33-37 (1997)

MEDLINE 97321042PUBMED 9177773

REFERENCE 2 (bases 1 to 1580)

AUTHORS Desir,G.V., Orias,M., Keating,M.T. and Curran,M.E.

TITLE Direct Submission

JOURNAL Submitted (02-APR-1997) Internal Medicine, Yale University, 333
Cedar St, New Haven, CT 06510, USA

FEATURES Location/Qualifiers

source

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CDS

10..1545

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BASE COUNT 372 a 430 c 398 g 380 t

ORIGIN

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1561 ttgggtccat cctgtctctc

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Revised: July 5, 2002.

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[NCBI](#) | [NLM](#) | [NIH](#)

Oct 21 2002 11:56:56



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Protein

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Structure

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☐ 1: AH007067. Homo sapiens pota...[gi:4028014]

Links

LOCUS HSKCNQP01 807 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 1.

ACCESSION AF071478

VERSION AF071478.1 GI:4028000

KEYWORDS .

SEGMENT 1 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiensEukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 807)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K⁺
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323PUBMED 9872318

REFERENCE 2 (bases 1 to 807)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

source

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/chromosome="8"

/map="8q23-q24"

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intron

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/number=1

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601 cacgcgttgg tgtgagtacc cggccgctcg gggcgccctc ggcgggcgcg cgcttgggga
661 cttggggctg gggctggagc tgagaagtct ctggggcttt aagacccatg gatgctttcc
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LOCUS HSKCNQP02 1245 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 2.

ACCESSION AF071479

VERSION AF071479.1 GI:4028001

KEYWORDS .

SEGMENT 2 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiensEukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1245)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 1245)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

source 1..1245
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="8"
/map="8q23-q24"intron <1..481
/gene="KCNQ3"
/number=1exon 482..572
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/number=2intron 573..>1245
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BASE COUNT 324 a 272 c 264 g 385 t

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LOCUS      HSKCNQP03                      1279 bp      DNA      linear      PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 3.
ACCESSION  AF071480
VERSION    AF071480.1  GI:4028002
KEYWORDS    .
SEGMENT     3 of 14
SOURCE      Homo sapiens.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 1279)
  AUTHORS   Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
  TITLE     Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
            channels causes epilepsy
  JOURNAL    Nature 396 (6712), 687-690 (1998)
  MEDLINE    99087323
  PUBMED     9872318
REFERENCE   2 (bases 1 to 1279)
  AUTHORS   Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
  TITLE     Direct Submission
  JOURNAL    Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
            University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES             Location/Qualifiers
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     intron          716..>1279
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BASE COUNT      322 a      319 c      298 g      340 t

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LOCUS HSKCNQP04 1285 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 4.

ACCESSION AF071481

VERSION AF071481.1 GI:4028003

KEYWORDS .

SEGMENT 4 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1285)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 1285)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

source 1..1285
/organism="Homo sapiens"
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/chromosome="8"
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intron <1..519
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/number=3

exon 520..692
/gene="KCNQ3"
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intron 693..>1285
/gene="KCNQ3"
/number=4

BASE COUNT 303 a 307 c 321 g 354 t

ORIGIN

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LOCUS HSKCNQP05 2675 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exons 5 and 6.

ACCESSION AF071482

VERSION AF071482.1 GI:4028004

KEYWORDS .

SEGMENT 5 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 2675)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 2675)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

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/organism="Homo sapiens"
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/gene="KCNQ3"
/number=6intron 2057..>2675

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                /number=6
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1141 caaacaacc cagtgcacaga tacacatgtg tgctcacaca gacctgtgtg tgcacaaccc
1201 tacaccaca aggacacaca gtactaaagc tggcattcac tgaaggcttt ctttgcacca
1261 gagcatctct ctgggtgctt tactttcact aacctacttt aaactcaaac aacttctatc
1321 attagctctt tttaaaagta gggaaactga agcatgaaga agttaagtaa cttcaaggtc
1381 tttcagccag taagtggcta acctgggatt tgaagtcaga tagttaggct ccggaggcca
1441 cactgtcaac tgctctgata atcctgcctt tcacatgcag atacacatgc ataagtacat
1501 gtatactgat aacataaaca tgtaaacaca cacaagaata tactaaacac accagaacag
1561 atacatgcac agacattaga catacacaca tatatacaca atacatacaa atatactcac
1621 aagcacacat atattcacaa acatggctat aaataaaatc acaaatcac aaatatacac
1681 acacatgaat gctcgtgtac atacacattt gcaattgctg aaatatgtgt tgactgacta
1741 aggtaggaac cccttaactt atcaacaagt ctcaaggcat ccataaagt tagtaggtac
1801 ttgggtgtctt ttctcctaag ggaaccttgt tatgaatggg agcattgccc aagctgatgg
1861 agaggcttac aggtagagct cagttaacac gttcctgata ttctctcca tgtggtactc
1921 catgtctgaa ctcttctctc ttccagatcac actggccacc attggctatg gagacaagac
1981 acccaaaacg tgggaaggcc gtctgattgc cgccaccttt tccttaattg gcgtctcctt
2041 ttttgccctt ccagcggtaa gtacctttga tatatgacat cccaatgtg acgtgcagga
2101 ccccttaccg cctgggtgcca gctcaacttt ccagtgtcat cttctatcct cttataccct
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2221 tgctttcctt tgccaaagat ttcttcacac atcaactcct ctttcaatgc tgccttcttt
2281 aggctgagct agtcgctctg ggcataactc tgggaataat tctgtaaagg agtttctggc
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2401 gttctgggat tatatttttc attcatgcat tcccagtgcc ttgcacggag caggtccttc
2461 atttatgtga gttcccttct cttgtcctgt tacttactgg cttatgtaaa aaatacatgt
2521 ctctcaagaa taagccttga cctatgatag agtaacttcc ccaacgcccc gtgtccaggt
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2641 aaatgcttta cccacatcat ctcatttaat cttca

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LOCUS      HSKCNQP06                      937 bp      DNA      linear      PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 7.
ACCESSION  AF071483
VERSION    AF071483.1  GI:4028005
KEYWORDS   .
SEGMENT    6 of 14
SOURCE     Homo sapiens.
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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REFERENCE 1 (bases 1 to 937)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+ channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318

REFERENCE 2 (bases 1 to 937)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH, University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers
source 1..937
/organism="Homo sapiens"
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/map="8q23-q24"
intron <1..641
/gene="KCNQ3"
/number=6
repeat_region complement(AH007067.1:7611..7751)
/rpt_family="MIR"
exon 642..737
/gene="KCNQ3"
/number=7
intron 738..>937
/gene="KCNQ3"
/number=7
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/rpt_type=tandem
/rpt_unit=gt
/db_xref="GDB:614493"

BASE COUNT 223 a 211 c 234 g 269 t

ORIGIN

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1 cttgagcaaa tgaccttctt aaatctcagt tttctcattg atgagtcagg gccataggaa
61 tgttgcaaga tcttcaagtt ctctttcagc ttggaaagtg tgtgtttctg gccacttaat
121 ccaactggcaa gtctgacctg aaaatcaaaa cagatcccaa ttctgggaag ttccggctat
181 agtcaaagta tcacgtgaca gttcaagcag ctaaaatatt tttaaaactc agttaacatt
241 actgggcatc tattttgtgc agtaccctt actggcagtt tataaagggtt atctcacttt
301 tttctaataca tgcattaggt attattatcc cacatcccta tagaaaaaac caatatgcaa
361 caggggctaag gggcttgccc aggccctcac acctggaaag tggcagtgtc agaattggaa
421 cccaggtctt cctgacttca aggctcattt cacttaacca agctccctac tctcttcaag
481 agaaggaagg gctctttccc ccttcccttc tttgtacagt gttgtcactg caaggacttg
541 aagtgaatt gagccctaca gtccccaatta ccctggcaat ggagcgggaa tgctgggaca
601 gtctagctgg gggctgactg cctgcctgcc tctccctcca gggcatcctg ggggtccgggc
661 tggccctcaa ggtgcaggag caacaccgtc agaagcactt tgagaaaagg aggaagccag
721 ctgctgagct cattcaggtc tgtctgcctg ggaatgaact ggaatgggat taagatccat
781 gcatagttac atacgtgtgt gtgtgtgtat gtgtgcatgt gtgcacatgt ggaggggaca
841 tactcatgaa ctgggacagg acccaggatt ccatgtgtgt ctgtgtgtct tgtgtgtctg
901 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtg
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LOCUS HSKCNQP07 1035 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 8.
ACCESSION AF071484
VERSION AF071484.1 GI:4028006
KEYWORDS .
SEGMENT 7 of 14

SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1035)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 1035)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers
source 1..1035
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/chromosome="8"
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/number=7
repeat_region complement(AH007067.1:8230..8351)
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exon 437..531
/gene="KCNQ3"
/number=8
intron 532..>1035
/gene="KCNQ3"
/note="rare splice donor site (GC) instead of splice donor
consensus site (GT)"
/number=8
repeat_region AH007067.1:8925..9247
/rpt_family="Alu"
BASE COUNT 246 a 262 c 239 g 288 t
ORIGIN
1 tttttttttt tttttttag agatgaagtt taattatggt gccagggctg gtctccaact
61 cttggcctca agtgatcctc ccaccttggt ctcccaaagt gctgggatta caggcgtgag
121 ccatagcacc ggcctttagt acttggtcct ttcagggatt ttatgcctac tactctcttc
181 tctccctcca ctccagttca tctctccatt cccccactca ccacaacacc aattatagct
241 ccaagatggt caaggaagtt tttcttccca aagcagcttc aaaaagccaa gaatctcgg
301 ttttctgaat gttggctcaa tgcacattca aattcttagg agtccagggc ttaaacattg
361 ttttggtggt gtgggagtct gtgcgaaagt ttcaggtggt gccactcat tgttgcccct
421 cttttctgcc cctcaggctg cctggaggta ttatgctacc aacccaaca ggattgacct
481 ggtggcgaca tggagatttt atgaatcagt cgtctctttt cttttcttca ggcaagtggg
541 gactcacctg aatgctcagg gcgtgaccag ccatctctcc tgcggtctgt attcgtgtct
601 gtggcctcac gggctccctgg agaacactct tcagggaat gttccccaat ttgggctgca
661 ccttagaatt atctggtagc ttaaacagtt ctggctgggc gcggtggctc acaccataa
721 tcccagact ttgggaggcc gaggcggtg gatcacctga ggtcaggagt tccataccag
781 cctggccaac atggtgaaat cccgttccta ctaaaaatgc aaaaattagc cgggcgtggg
841 ggtgtgtgcc tgtaatccca gctactcagg aggctgaggc aggagaattg cttgaacca
901 ggaaatggag gttctgtgac cagagattgt gctacagcac ttcagcctgg gcaacacagt
961 gagcgtgaga ccctttctca aaaaattaaa aataaaaata aaaataaaga aaaaaaaaaat
1021 ctgatgccta ggcca
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LOCUS HSKCNQP08 665 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 9.

ACCESSION AF071485
VERSION AF071485.1 GI:4028007
KEYWORDS .
SEGMENT 8 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 665)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 665)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers
source 1..665
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="8"
/map="8q23-q24"
intron <1..471
/gene="KCNQ3"
/number=8
repeat_region AH007067.1:9267..9320
/rpt_family="MIR"
exon 472..498
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/number=9
intron 499..>665
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BASE COUNT 165 a 147 c 161 g 192 t
ORIGIN

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121 atgacattcc tggtttctctg gtctgtctcc accaccaaatt aaatttctctg agctcaacat
181 gagagctggg gcagagtaag tgctcagcaa ccattttctg gatgaataaa tgaatgaatg
241 agtggctgaa aagagccctg aaaacctcag agccaacggg agtagcatgg gctgggggtct
301 ggatgggtaa acccgccctc ttcatgtgtt ccctccacac tgaccatcct gtcctagagc
361 tcaactctgc tccatcatct tcagagagaa gctttgcagc aatctttcga ggaaggatac
421 agctgtttca cgtaatttat gctttatatt ttctccctct tctctttcta ggaaagaaca
481 gctggaggca gcatccaggc aagtttctga ttatgaattc ccttcttcac atctctgtgt
541 caagacagag catcctgctc catatggtgt agggcccat gggaggatcat gctgggtcca
601 agatagagtc tttgggggtc acactgttgc tgaccaccat agtcctctgc ctggtttcct
661 tctgg
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LOCUS HSKCNQP09 784 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 10.
ACCESSION AF071486
VERSION AF071486.1 GI:4028008
KEYWORDS .
SEGMENT 9 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 784)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+ channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318

REFERENCE 2 (bases 1 to 784)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH, University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES
Location/Qualifiers
source 1..784
/organism="Homo sapiens"
/db_xref="taxon:9606"
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exon 327..529
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/number=10
intron 530..>784
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BASE COUNT 187 a 201 c 175 g 221 t

ORIGIN

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61 ggcacctcat gtaagctaca tttaatcgta tgggaaaatt gacattcaga gaagtcttgc
121 ccagggtata agagctagca ggctgtggag ctaggatttg aaccacgccc tgtccgattc
181 caagctgctg agtcagattc agcactgtga aatgcacggc cccatttct cctggagga
241 gaatgtgtga gtctttatgg agggatggga aattttaaga gcctgcactg aaggaggaaa
301 attgttact tttgcttatt ttgtagccaa aagctgggtc tcttggatcg ggttcgcctt
361 tctaatactc gtggtagcaa tactaaagga aagctattta cccctctgaa tgtagatgcc
421 atagaagaaa gtccttctaa agaaccaaaag cctgttggct taaacaataa agagcgtttc
481 cgcacggcct tccgcatgaa agcctacgct ttctggcaga gttctgaagg taatgccttt
541 ttatctccct cctgtctct tccacttctt cctcccccaa gtccacttcc ttcctcacct
601 ctccctttgc ccacttaaga acctttgact ccacaaggta actctctccc ttcctcgac
661 aagccaactt cttgcttccc taactcctcc tgtcccttgg gctgaggcat tgtgatgat
721 tcccaggagt ctagggctgc aggctcccaa gttaggagcc tggaaacctg tcaccttggt
781 ttct
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LOCUS HSKCNQP10 897 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 11.
ACCESSION AF071487
VERSION AF071487.1 GI:4028009
KEYWORDS .
SEGMENT 10 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 897)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+ channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE [99087323](#)
PUBMED [9872318](#)
REFERENCE 2 (bases 1 to 897)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers
source 1..897
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/db_xref="taxon:9606"
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intron <1..273
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exon 274..376
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intron 377..>897
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/number=11

BASE COUNT 219 a 228 c 204 g 246 t
ORIGIN

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1 ggagctcact tctcctccct gctagccttt tccctcacta ccagtcatga gctgcgcaca
61 cttttgactt ggacttctgg gtaatagaat gagggtgcca agaaaggctg aacagcatca
121 cagcttgaga ataccgtgga gtcttgcaac gtggaaataa agactctggg gattgacaca
181 tccagaggcg tggaaaggctt tgaccgaaca gtgggggtccc caagcctttt ccaggctctgt
241 ggcttgccgt tcatatgtgt gtctccctcc cagatgccgg gacaggtgac cccatggcgg
301 aagacagggg ctatgggaat gacttcccca tcgaagacat gatccccacc ctgaaggccg
361 ccatccgagc cgtcaggtaa tgccccacag gtcccacctg tgccctgtgtg cctcccccg
421 tccagctcaa ctcccacagg aaggggctta taaaattatc ttgcactttg ggaaggggga
481 agagaagccc ctccactaac cctgagttag gtccctgaag tatgtaaata ctgtatgctg
541 cccagaaaaa aatgatccag acgttagcaa gtcatgatgg gtgactcgta ggtgcctgcc
601 ttgttataaa cacgccccac agccctcctg acagtatttc cacctgctat gttctgctct
661 gtctgttaact accatgtatt ttaaagggtg tcagagtgga gggttttctt cctgtagagg
721 cttcttgctc aaaatggttt ttcttctgcc taacttcac ccatatagttt gttttaatta
781 gttcgcattt ttaacaagat aataaattat agtatttttt tgtctgtatc agcagagacc
841 ataatccatt ctacctatct ctgttttgct ttagaattct gcaagaaaaa gaaaaaaa
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LOCUS HSKCNQP11 947 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 12.

ACCESSION AF071488

VERSION AF071488.1 GI:4028010

KEYWORDS .

SEGMENT 11 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 947)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE [99087323](#)

PUBMED [9872318](#)

REFERENCE 2 (bases 1 to 947)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers
 source 1..947
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
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 /map="8q23-q24"
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 /number=11
 exon 313..444
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 /number=12
 intron 445..>947
 /gene="KCNQ3"
 /number=12

BASE COUNT 287 a 199 c 187 g 274 t

ORIGIN

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1  tatcaggatt gttcataaag cattaattaa gctcatggtc tggcatacag tgaatgctca
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121 taatcctgat ggagatgtac taactctgtg tgttccaagg ggtagaacca gaaccaaacg
181 ttggaagttc ttccagcaag ctcttttatac tttggttctt ttctccccct gccctggagt
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361 gccttacgat gtgaaggatg tgattgagca gtattctgcc gggcatctcg acatgctttc
421 caggataaag taccttcaga cgaggtgaga cagtcacatc tggagggact gcgctcccct
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541 gggagagatt ttaagaagac aaatatccac gaagccttgt ggatgtctag gccaacaaag
601 caccagatcg gacagactgt gaaatagctg tatgacattg ccatggccaa ggtcagcacc
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721 ttcgatgttg ccaacaaaac aggatcatcc gaattaaacc gaatccagct gcctaattaa
781 ttctcaatac aattctttac catatttaaa aatgttcac aggtattact tataatagtg
841 aaagatatgg aaatagcatc aatgcctaac taataattgc catcattttt attgaactcc
901 tgagtactcc acctgcgtgt ttatactccc ttatgaaatc acaagat
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LOCUS HSKCNQP12 816 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 13.
ACCESSION AF071489
VERSION AF071489.1 GI:4028011
KEYWORDS .
SEGMENT 12 of 14
SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 816)
 AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
 TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
 channels causes epilepsy
 JOURNAL Nature 396 (6712), 687-690 (1998)
 MEDLINE 99087323
 PUBMED 9872318
REFERENCE 2 (bases 1 to 816)
 AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
 TITLE Direct Submission
 JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
 University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers

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source      1..816
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intron      <1..172
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exon        173..271
             /gene="KCNQ3"
             /number=13
intron      272..>816
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             /number=13
BASE COUNT  220 a    221 c    135 g    240 t
ORIGIN
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   61 cctcttatat attccaaacc cttatctcat tctagagaga atagaatgat ttgttttcct
  121 gtcaaaacaa agctctgtgt aattttaatcc ctgctctgtt tgtttctttc agaatagata
  181 tgattttcac ccctggacct ccctccacgc caaaacacaa gaagtctcag aaagggtcag
  241 cattcacctt cccatcccag caatctccca ggtggggcca gtggacatgg actgatgggc
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DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 14.
ACCESSION  AF071490
VERSION    AF071490.1  GI:4028012
KEYWORDS   .
SEGMENT    13 of 14
SOURCE     Homo sapiens.
  ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 575)
  AUTHORS  Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
  TITLE    Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
            channels causes epilepsy
  JOURNAL  Nature 396 (6712), 687-690 (1998)
  MEDLINE  99087323
  PUBMED   9872318
REFERENCE  2 (bases 1 to 575)
  AUTHORS  Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
  TITLE    Direct Submission
  JOURNAL  Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
            University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES   Location/Qualifiers
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  361 tagatataat gatcttatag aagtgttcgc ttcttcttag gaatgaacca tatgtagcca
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  541 gccatttctt ttttttcttt ctttcttttt ttttt
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LOCUS      HSKCNQP14                      903 bp      DNA      linear      PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 15 and complete
            cds.
ACCESSION  AF071491
VERSION    AF071491.1  GI:4028013
KEYWORDS   .
SEGMENT    14 of 14
SOURCE     Homo sapiens.
   ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 903)
   AUTHORS  Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
   TITLE    Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
            channels causes epilepsy
   JOURNAL  Nature 396 (6712), 687-690 (1998)
   MEDLINE  99087323
   PUBMED   9872318
REFERENCE  2 (bases 1 to 903)
   AUTHORS  Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
   TITLE    Direct Submission
   JOURNAL  Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
            University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES   Location/Qualifiers
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                AF071483.1:1..937,AF071484.1:1..1035,AF071485.1:1..665,
                AF071486.1:1..784,AF071487.1:1..897,AF071488.1:1..947,
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  121 tggatatgca catgcaacac atggaacggg tgcagggtgca ggtcacggag tattacccaa
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